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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,448	09/11/2003	James R. Eaton JR.	5649-2248	7811
20792 7590 11/15/2007 MYERS BIGEL SIBLEY & SAJOVEC PO BOX 37428			EXAMINER	
			. PHAN, TRONG Q	RONG Q
RALEIGH, NC 27627			ART UNIT	PAPER NUMBER
	•		2827	
				
			MAIL DATE	DELIVERY MODE
			11/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)		
	10/661,448	EATON ET AL.		
Office Action Summary	Examiner	Art Unit		
	TRONG PHAN	2827		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	h the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was railure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MONT , cause the application to become ABA	ATION. ply be timely filed "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 12 Section 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matte	•		
Disposition of Claims				
4) ☐ Claim(s) 6-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 6-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to to described or by objected to describe drawing(s) be held in abeyang ion is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application 		

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DETAILED ACTION

Claim Objections

1. Claims 6-9, 11-14 and 16 are objected to because of the following informalities:

Claim 6, the feature "a number of the rows and columns is increased by increasing the reverse bias resistance" (last two line) is not readable on the original specification.

Claim 7, the ŋ is not defined as the number of the rows and columns in the original specification but only as the number of rows in a square array (see lines 26-27, page 6 of the original specification).

The features recited in claims 8-9, 13-14 and 16 are not readable on the original specification.

Claim 11, the feature "limiting a maximum number of the rows and columns for inclusion in the device by increasing the reverse bias of the selection device" (last two line) is not readable on the original specification.

Claim 12, the feature "the maximum number of rows and columns for inclusion in the device is limited according to the relation" is not readable in the original specification. The ŋ in the relation is only defined as the number of rows in a square array in lines 26-27, page 6 of the original specification.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 6-16 are, insofar as understood, rejected under 35 U.S.C. 102(b) as being anticipated by Scheuerlein, 6,130,835.

Scheuerlein, 6,130,835, discloses in Fig. 1 a MRAM device comprising: an array of magnetic memory cells MTJ; a plurality of memory cell selection devices 7 each having a reverse bias resistance which all selection device diodes remain reversed-biased during a write operation as represented by point U in Fig. 2 (see lines 63-67, column 1 and lines 1-2, column 2); therefore, a number of rows and columns in the MRAM device is inherently increased by increasing the reverse bias resistances of the selection devices 7 in relation to a number of the selected memory cells MTJ.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Response to Arguments

5. Applicant's arguments filed on 9/12/07 have been fully considered and are persuasive. Therefore, the last office action of 6/12/07 has been withdrawn.

However, in view of Applicant's amendments, a new office action has been set forth and made FINAL as above.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG PHAN whose telephone number is (571) 272-1794. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, AMIR ZARABIAN can be reached on (571) 272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Trong Phan

TRONG PHAN
PRIMARY EXAMINER